UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR ATTORNEY DOCKET NO		CONFIRMATION NO.	
10/509,239	09/24/2004	Johannes Johanna Van Herk	NL 020256	1780	
24737 7590 10/08/2008 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER		
			HOLMES, REX R		
BKIAKCLIFF	MANOR, NY 10510		ART UNIT	PAPER NUMBER	
			3762		
			MAIL DATE	DELIVERY MODE	
			10/08/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Communication		Арр	olication No.	Applicant(s)	Applicant(s)			
		10/	509,239	VAN HERK ET A	VAN HERK ET AL.			
	Office Action Summary	Exa	ıminer	Art Unit				
		REX	X HOLMES	3762				
Period fo	The MAILING DATE of this communi or Reply	cation appears	on the cover sheet	with the correspondence a	address			
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAN IS IN 1961	AILING DATE (of 37 CFR 1.136(a). unication. tutory period will appl vill, by statute, cause	OF THIS COMMUN In no event, however, may by and will expire SIX (6) Mo the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed	d on <i>25 Augus</i> i	t 2008					
· ·		b)⊠ This actio						
3)	/ 							
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims		-					
- 4)⊠	Claim(s) 1,2 and 6-20 is/are pending	in the applicat	ion					
•—	4a) Of the above claim(s) is/are withdrawn from consideration.							
	✓ Claim(s) <u>1,2,6 and 13-17</u> is/are allowed.							
)⊠ Claim(s) <u>7,2,6 and 73-77</u> is/are allowed.)⊠ Claim(s) <u>7-12 and 18-20</u> is/are rejected.							
· ·	Claim(s) is/are objected to.	ou.						
•	Claim(s) are subject to restrict	ion and/or elec	ction requirement					
		ion ana, or olo	alon roquiromonic.					
	on Papers							
•	The specification is objected to by the		_					
10)	The drawing(s) filed on is/are:	•	· · · · · · ·					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
_	Replacement drawing sheet(s) including		•		, ,			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P ⁻ mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	ГО-948)	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application 				

Application/Control Number: 10/509,239 Page 2

Art Unit: 3762

DETAILED ACTION

Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 7, 11 and 18, are rejected under 35 U.S.C. 103(a) as being unpatentable over Byers et al. (U.S. Pat. 4,969,468 hereinafter "Byers") in view of Booker et al. (U.S. Pub. 2003/0114906 hereinafter "Booker").

Regarding claims 7, 11 and 18, Byers discloses a electrode array for sensing physiological signals through the skin, made out of a conductive flexible/stretchable material with projections made out of metal that are arranged in a uniform pattern on the surface of the electrode (e.g. Col. 7, II. 18-25; Col. 10, II. 22-30; Col. 12, II. 25-40; Figs. 4-6). Byers further discloses that the electrode body is sandwiched between two insulating layers with the tips of the projections sticking through the layers (e.g. Fig. 4 ("8" & "10") & Col. 6, II. 38-53) but fails to discloses that the projections and electrode backing are elastic and are used in combination with a storage and analysis device. However Booker discloses a system for monitoring ecg, evaluating ecg and then stimulating that utilizes elastic electrodes (23) with elastic projections (23) to provide a

Application/Control Number: 10/509,239

Art Unit: 3762

electrode that can conform to tissue so that it maintains constant contact(Fig. 9, ¶42). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system as taught by Byers, with elastic electrodes and projections as taught by Booker, since such a modification would provide the electrodes and projections with elastic properties for providing the predictable result of elastic electrodes with projections that conform to tissue and maintain constant contact without moving.

Page 3

- 4. Regarding claims 8-10 and 20, Byers in view of Booker teaches the claimed invention except for the elastic layer being a conductive rubber and the insulating layers being plastic. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the elastic layer with a conductive rubber and the insulating layer with a plastic, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.
- 5. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Byers in view of Booker as applied to claim 7 above, and further in view of Ingman (U.S. Pub. 2002/0082668).
- 6. Regarding claim 12, Byers in view of Booker discloses the claimed invention except for the holes to collect sweat and prevent short circuiting. Ingman teaches that it is known to use holes in the electrode as set forth in Paragraph 16 to prevent sweat from short circuiting the conducting layer of the electro-patch. It would have been obvious to one having ordinary skill in the art at the time the invention was made to

Application/Control Number: 10/509,239

Page 4

Art Unit: 3762

modify the electrode as taught by Byers in view of Booker, with holes through the electrode as taught by Ingman, since such a modification would provide the predictable result of a electrode with holes to prevent sweat from short circuiting the conducting layer of the electrode. Further it would have been obvious to one having ordinary skill in the art to put the holes between the projections as the only place to put the holes in the body of the electrode would be in the spaces between the projections.

7. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Byers in view of Booker and further in view of Granek et al. (U.S. Pat. 4,729,377 hereinafter "Granek").

Regarding claim 19, Byers in view of Booker discloses a electrode array for sensing physiological signals through the skin, made out of a conductive flexible/stretchable material with projections made out of metal that are arranged in a uniform pattern on the surface of the electrode but fails to disclose that the electrodes are positioned on a garment. However Granek discloses a system that uses a garment to connect and hold flexible electrodes near the body in a secure way for sensing and stimulation purposes as set forth in Columns one and two. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system as taught by Byers, with a garment to secure electrodes to the body as taught by Granek, since such a modification would provide the predictable results of a way of holding electrodes with a garment for providing a secure way to position electrodes on a body in a comfortable and organized way.

Application/Control Number: 10/509,239 Page 5

Art Unit: 3762

Allowable Subject Matter

8. Claims 1-2, 6, 13-17 allowed.

9. The following is a statement of reasons for the indication of allowable subject matter: The subject matter not found was a electrode having a body of electrically conductive elastic material with projection of the electrically elastic material in combination with the other elements in the claims.

Response to Arguments

10. Applicant's arguments filed 8/25/08 regarding claims 7-12 and 18-20 have been fully considered but they are not persuasive. Applicant argues that Byers in view of Booker as there is no reason to combine these references. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, both Byers and Booker both disclose electrodes for use on human tissue and thus teach of analogous art. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system as taught by Byers, with elastic electrodes and projections as taught by Booker, since such a modification would provide the electrodes and projections with elastic properties for providing the predictable result of elastic

electrodes with projections that conform to tissue and maintain constant contact without moving.

11. Applicant's arguments, see Applicant Remarks, filed 8/25/08, with respect to claims 1-2, 6, 13-17 have been fully considered and are persuasive. The rejection of claims 1-2, 6, 13-17 under 35 USC 103 has been withdrawn.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to REX HOLMES whose telephone number is (571)272-8827. The examiner can normally be reached on M-F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on 571-272-4955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/509,239 Page 7

Art Unit: 3762

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. H./ /George R Evanisko/

Examiner, Art Unit 3762 Primary Examiner, Art Unit 3762